

**AMENDMENTS TO THE SPECIFICATION**

**Please replace the paragraph beginning at line 20 on page 5 with the following amended paragraph:**

If soft handover thus occurs across the RNCs, although a user data path can be connected from one U plane control functional unit to a plurality of Node Bs in the soft handover state, a path for this purpose must be connected between a serving RNC and drift RNC. This not only wastes the resources, but also produces a delay because data is transferred via the RNC. Therefore, a technique which separates the U plane control function and C plane control function is possible. When the U plane control function and C plane control function are to be separated in the system shown in Fig. 3, the C plane control function can be formed by the terminal position detector 101, common radio resource manager 102, paging/broadcast network element 103, cell controller 104, and mobile controller 105, and the U plane control function can be formed by the radio layer 106, cell transmission gateway ~~106~~107, and user radio gateway ~~107~~108.

**Please replace the paragraph beginning at line 12 on page 8 with the following amended paragraph:**

In order to achieve the above object, according to a first aspect of the present invention, there is provided a mobile communication system in which a calling process and a Node B utilized for cell setting are controlled by the same protocol architecture, comprising a mobile terminal unit, a radio base station which communicates with said mobile terminal unit via a radio channel, and a radio controller which controls said radio base station, and is physically separated into first control means for controlling transfer of signaling and second control means for

PRELIMINARY AMENDMENT  
U.S. PATENT APPLICATION NO. 10/553,192

accommodating said radio base station under the control and controlling transfer of user data, characterized by further comprising a radio base station replacement control apparatus which controls replacement of said radio base station.

**Please replace the paragraph beginning at line 25 on page 8 with the following amended paragraph:**

According to a second aspect of the present invention, there is provided a mobile communication system in which a calling process and a Node B utilized for cell setting are controlled by the same protocol architecture, comprising a mobile terminal unit, a radio base station which communicates with said mobile terminal unit via a radio channel, and a radio controller which controls said radio base station, and is physically separated into first control means for performing control independent of a radio transmission scheme and second control means for accommodating said radio base station under the control and performing control depending on a radio transmission scheme, characterized by further comprising a radio base station replacement control apparatus which controls replacement of said radio base station.

**Please replace the paragraph beginning at line 11 on page 9 with the following amended paragraph:**

According to a third aspect of the present invention, there is provided a mobile communication system in which a calling process and a Node B utilized for cell setting are controlled by the same protocol architecture, comprising a mobile terminal unit, a radio base station which communicates with said mobile terminal unit via a radio channel, and a radio controller which controls said radio base station, and is physically separated into first control

PRELIMINARY AMENDMENT  
U.S. PATENT APPLICATION NO. 10/553,192

means for controlling transfer of signaling and second control means for accommodating said radio base station under the control and controlling transfer of user data, said second control means performing control depending on a radio transmission scheme, characterized by further comprising a radio base station replacement control apparatus which controls replacement of said radio base station.

**Please replace the paragraph beginning at line 25 on page 9 with the following amended paragraph:**

According to a fourth aspect of the present invention, there is provided a mobile communication system in which a calling process and a Node B utilized for cell setting are controlled by the same protocol architecture, comprising a mobile terminal unit, a radio base station which communicates with said mobile terminal unit via a radio channel, and a radio controller which controls said radio base station, and is physically separated into first control means for controlling a terminal resource of said mobile terminal unit and second control means for accommodating said radio base station under the control and controlling a base station resource of said radio base station, characterized by further comprising a radio base station replacement control apparatus which controls replacement of said radio base station.

**Please replace the paragraph beginning at line 7 on page 11 with the following amended paragraph:**

According to a eighth aspect of the present invention, there is provided a radio base station replacement control apparatus which controls replacement of a radio base station in a mobile communication system in which a calling process and a Node B utilized for cell setting

are controlled by the same protocol architecture, comprising a mobile terminal unit, said radio base station which communicates with said mobile terminal unit via a radio channel, and a radio controller which controls said radio base station, and is physically separated into first control means for controlling transfer of signaling and second control means for accommodating said radio base station under the control and controlling transfer of user data, characterized in that said first and second control means are physically independent of each other.

**Please replace the paragraph beginning at line 20 on page 11 with the following amended paragraph:**

According to a ninth aspect of the present invention, there is provided a radio base station replacement control apparatus which controls replacement of a radio base station in a mobile communication system in which a calling process and a Node B utilized for cell setting are controlled by the same protocol architecture, comprising a mobile terminal unit, said radio base station which communicates with said mobile terminal unit via a radio channel, and a radio controller which controls said radio base station, and is physically separated into first control means for performing control independent of a radio transmission scheme and second control means for accommodating said radio base station under the control and performing control depending on a radio transmission scheme, characterized in that said first and second control means are physically independent of each other.

**Please replace the paragraph beginning at line 7 on page 12 with the following amended paragraph:**

According to a tenth aspect of the present invention, there is provided a radio base station replacement control apparatus which controls replacement of a radio base station in a mobile communication system in which a calling process and a Node B utilized for cell setting are controlled by the same protocol architecture, comprising a mobile terminal unit, said radio base station which communicates with said mobile terminal unit via a radio channel, and a radio controller which controls said radio base station, and is physically separated into first control means for controlling transfer of signaling and second control means for accommodating said radio base station under the control and controlling transfer of user data, said second control means performing control depending on a radio transmission scheme, characterized in that said first and second control means are physically independent of each other.

**Please replace the paragraph beginning at line 22 on page 12 with the following amended paragraph:**

According to a 11th aspect of the present invention, there is provided a radio base station replacement control apparatus which controls replacement of a radio base station in a mobile communication system in which a calling process and a Node B utilized for cell setting are controlled by the same protocol architecture, comprising a mobile terminal unit, said radio base station which communicates with said mobile terminal unit via a radio channel, and a radio controller which controls said radio base station, and is physically separated into first control means for controlling a terminal resource of said mobile terminal unit and second control means

PRELIMINARY AMENDMENT  
U.S. PATENT APPLICATION NO. 10/553,192

for accommodating said radio base station under the control and controlling a base station resource of said radio base station, characterized in that said first and second control means are physically independent of each other.

**Please replace the paragraph beginning at line 3 on page 14 with the following amended paragraph:**

According to a 15<sup>th</sup> aspect of the present invention, there is provided a radio base station replacement control method in a communication system in which a calling process and a Node B utilized for cell setting are controlled by the same protocol architecture, comprising a mobile terminal unit, a radio base station which communicates with the mobile terminal unit via a radio channel, a radio controller which controls the radio base station, and is physically separated into first control means for controlling transfer of signaling and second control means for accommodating the radio base station under the control and controlling transfer of user data, and a radio base station replacement control apparatus which is provided physically independently of the first and second control means and controls replacement of the radio base station, characterized by comprising the step of notifying, in response to an external trigger, a radio base station as an object of replacement of identification information of second control means which is to newly accommodate the radio base station.

**Please replace the paragraph beginning at line 2 on page 15 with the following amended paragraph:**

According to a 17<sup>th</sup> aspect of the present invention, there is provided a program for causing a computer to execute a radio base station replacement control method in a

PRELIMINARY AMENDMENT  
U.S. PATENT APPLICATION NO. 10/553,192

communication system in which a calling process and a Node B utilized for cell setting are controlled by the same protocol architecture, comprising a mobile terminal unit, a radio base station which communicates with the mobile terminal unit via a radio channel, a radio controller which controls the radio base station, and is physically separated into first control means for controlling transfer of signaling and second control means for accommodating the radio base station under the control and controlling transfer of user data, and a radio base station replacement control apparatus which is provided physically independently of the first and second control means and controls replacement of the radio base station, characterized by comprising the step of notifying, in response to an external trigger, a radio base station as an object of accommodation of identification information of second control means which is to newly accommodate the radio base station.

**Please replace the paragraph beginning at line 21 on page 33 with the following amended paragraph:**

After layer 1 (L1) synchronization of the radio channel between the terminal UE and Node B #2 is completed, the Node B #2 notifies the terminal resource control unit #2 of "RADIO LINK RESPONSE INDICATION (NBAP)" via the base station resource control unit #2 (steps S13 and ~~S13~~S13').

**Please replace the paragraph beginning at line 9 on page 38 with the following amended paragraph:**

Fig. 18 is a functional block diagram of the monitor controller ~~51~~52. This arrangement includes a database search unit 511 for searching a database ~~51~~52, a database rewriting unit 512 for rewriting the contents of the database 511, a cell setting change designation unit 513 for generating a cell setting change designation to a Node B, a cell setting change notification unit 514 for notifying a CPE of cell setting change in response to the reception of cell setting change OK from a Node B, an external interface unit 515, a control unit (CPU) 516 for controlling these units, and a recording medium 517 storing control sequences as programs.

**Please replace the paragraph beginning at line 16 on page 39 with the following amended paragraph:**

When receiving cell setting change OK from the Node B #1 (step S134), the monitor controller rewrites the database 52 as shown in the lower half of Fig. ~~20~~19 (step ~~S35~~S135), and notifies the CPEs #1 and #2 of the cell setting change, i.e., the address information of the Node B as an object of the cell setting change and the address information of the UPE as the change destination (step S136). When cell setting OK is returned from each CPE after that (step S137), the processing is terminated.